

**01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 40°10'02", long 74°40'39" referenced to North American Datum of 1983, Hamilton Township, Mercer County, NJ, Hydrologic Unit 02040201, at bridge on Groveville Road (Main Street) in Groveville, 1.2 mi upstream from Doctors Creek, and 2.2 mi northeast of Bordentown.

DRAINAGE AREA.--98.0 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 1966, 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Oct 12, 2007	372
Dec 6, 2007	91.3
Mar 5, 2008	140
Jun 5, 2008	365
Aug 28, 2008	17.5

## 01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1998 to current year.

REMARKS.--Site is at head of tide, infrequently affected, but sampled at low tide. Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 20.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft <sup>3</sup> /s (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)
Dec 06...	0820	91	11	.138	.109	760	12.9	92	6.8	189	-4.8	1.4	53
Mar 05...	1040	140	38	.107	.084	746	10.5	93	7.0	215	10.5	10.1	57
Jun 05...	1240	365	190	.323	.262	755	7.6	82	6.6	143	23.5	19.4	40
Aug 28...	0750	18	7.0	.131	.105	759	8.0	86	7.2	236	18.5	18.7	73

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Dec 06...	15.7	3.23	3.50	11.0	21	22.1	E.10	9.4	25.1	E105	112	4	.25
Mar 05...	16.4	3.83	2.79	13.8	20	27.2	.13	9.4	28.9	E118	135	33	.24
Jun 05...	11.7	2.69	3.50	7.36	21	14.8	.16	7.5	18.7	82	94	154	.41
Aug 28...	22.7	4.03	3.64	12.3	45	24.4	.21	9.6	24.1	131	156	2	.33

## 01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
<b>Dec</b> <b>06...</b>	.049	.51	.09	.75	.84	.017	.036	.087	.9	<.04	.9	3.9	20
<b>Mar</b> <b>05...</b>	.052	.82	.18	1.1	1.2	E.008	.014	.107	1.8	<.04	1.8	2.7	20
<b>Jun</b> <b>05...</b>	.081	.57	.31	.98	1.3	.013	.020	.54	3.2	<.04	3.2	6.2	25
<b>Aug</b> <b>28...</b>	.103	.63	E.04	.96	E1.0	.137	.150	.191	.4	<.04	.4	3.0	28